

MOBISCREEN MSS 502(i)/MSS 802(i) EVO | KLEEMANN

02 | 03



MOBISCREEN MSS 502(i)/MSS 802(i) EVO | PERFORMANCE FEATURES

MOBISCREEN MSS 502(i) EVO | MSS 802(i) EVO

Where flexibility meets output.

As powerful mobile screens for coarse elements, the MOBISCREEN MSS 502(i) EVO and MSS 802(i) EVO have been designed for evolving challenges in different applications. With their ingenious machine design and flexible conversion options, an optimal throughout can be guaranteed for natural stone and recycling applications.

Changing work locations and new applications often pose challenges for screening plants. The mobile screens for coarse elements are ideally prepared for this. The large range of screen media and simple setting of screen parameters enable easy adaptation of the MSS 502(i) EVO and the MSS 802(i) EVO to new application conditions.

If a fine end-product needs to be screened from a very coarse feed material, the plant can be quickly converted from three to two final grain sizes. It also stands out with ease of operation and ideal ergonomics.



MOBISCREEN MSS 502(i)/MSS 802(i) EVO | **HIGHLIGHTS**

THE HIGHLIGHTS

Perfectly equipped.

01 Feed hopper

- > Generously dimensioned feed hopper
- > Hopper rear walls can be folded at three heights (MSS 802(i) EVO)

02 Control system

> Simple operating concept reduces the risk of operating errors

03 Drive

> Ingenious hydraulics concept for efficient power transmission



04 Screen

Double-deck screen casing with effective screeningLarge setting and adjustment range of screen angle

> Material flow

- > Optimised material guidance for high throughput
- > Line coupling for process and safety linking

> Safety and ergonomics

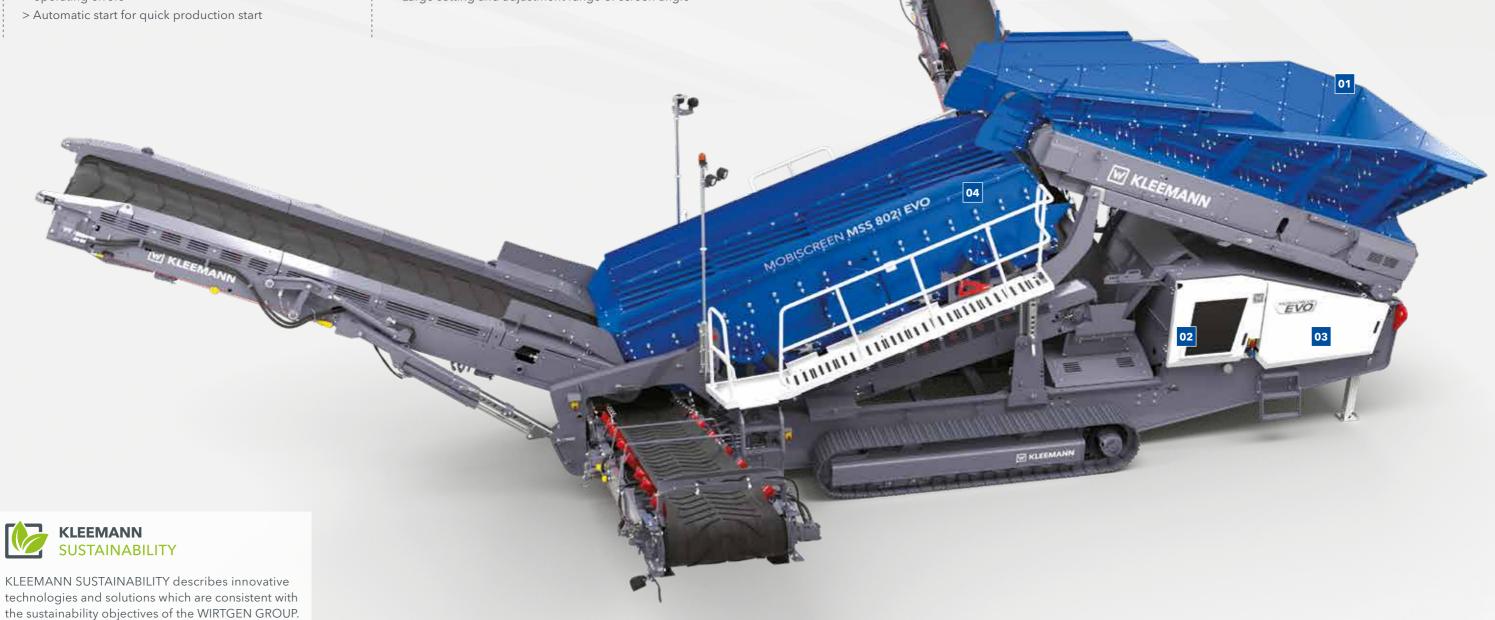
> Fast and ergonomic servicing thanks to excellent accessibility

> Transport

> Simple transportation and fast set-up

> Environmentally friendly solutions

- > Reduced dust and noise
- > Low fuel consumption



MOBISCREEN MSS 502(i)/MSS 802(i) EVO | **FEED HOPPER**

INGENIOUS FEED HOPPER

For short set-up times.







MSS 802(i) EVO

MSS 502(i) / MSS 802(i) EVO up to 350/500 t/h
Feed capacity

640 x 400 x 240 / 800 x 500 x 300 mm max. feed size **6.4/9.1 m³** Hopper volume of basic hopper



The MOBISCREEN EVO plants' feed hoppers are generously dimensioned and designed for an optimised material flow.

The rear wall of the feed hopper can be folded to three heights on the MSS 802(i) EVO and to two heights on the MSS 502(i) EVO. This ensures optimum material transfer even if the discharge height of an upstream plant is low.

Filling aids (option), which can be individually folded, are available to enable simple loading with a wheel loader from the side and rear. Moving the feeding unit and filling aids in and out as well as unlocking/locking the filling aids can be carried out safely and conveniently from the ground with the mobile operating device.

Robust and low-wear design

The hopper walls are heavily reinforced to ensure a long service life. For instance, the screen for coarse elements can withstand harsh operating conditions feed material up to an edge length of 400 or 500 mm*. The changeable KRS (KLEEMANN Resistant Steel) wear plates can be easily replaced and also protect the hopper against damage and a high degree of wear.

* Grain size 640 x 400 x 240 mm MSS 502(i) EVO, 800 x 500 x 300 mm MSS 802(i) EVO



With particularly coarse feed material, the screening plants for coarse material can be equipped with an optional apron feeder.

KLEEMANN > GOOD TO KNOW

With the optional filling aids, which can be folded comfortably on both sides using a mobile operating device, the wheel loader operator always has a good view into the hopper. Throwing over the hopper can be prevented.



MOBISCREEN MSS 502(i)/MSS 802(i) EVO | **OPERATING CONCEPT**

INTUITIVE OPERATING CONCEPT

For simple handling.

With the increasing demands that are placed on modern screening plants, their complexity also increases. At the same time, the technology needs to be safe and as easy to control as possible - without the need for long training sessions. This is precisely why the intuitive operating concept of our MOBISCREEN plants is so powerful.

With the easy-to-use control using a mobile operating device, the handling of the screen for coarse elements is user-friendly and intuitive. The operating concept, which its easy-tounderstand symbols, reduces the risk of operating errors and facilitates operation.



The hardware components

The mobile, wired operating device can be connected on both sides of the plant. The functions to be carried out can be ideally viewed from a safe distance, which ensures a high level of work safety. Machine status updates such as diesel consumption as well as an initial fault detection can also be viewed at a glance.

An optional radio remote control is also available for even more comfortable control of the driving functions and the hopper discharge conveyor.

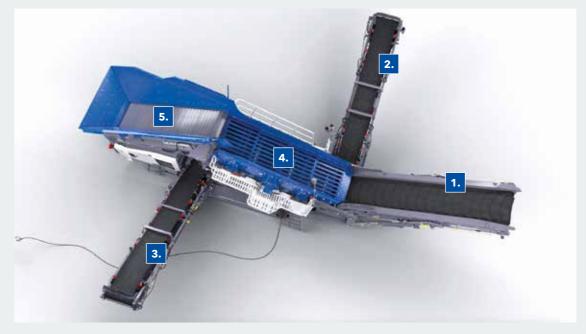


MSS 502(i) EVO

KLEEMANN > GOOD TO KNOW

Automatic mode for quick production start

A further advantage of the screening plants for coarse materials is the automatic mode. Once the diesel engine is switched on at the push-button, the plant is started up and all subsections and conveyors automatically start up one after the other. This ensures the correct starting sequence and the plant is quickly ready for production. Operating errors are ruled out!



Mobile wired operating device can be connected on both sides

Operation of driving functions and hopper discharge conveyor

Radio remote control

MOBISCREEN MSS 502(i)/MSS 802(i) EVO | **DRIVE**

POWERFUL DRIVE

For efficient power transmission.

The MOBISCREEN MSS EVO plants have a well-thought-out hydraulic concept which guarantees efficient power transmission.

The MSS EVO plants stand out with their powerful dieselhydraulic drive concept and reduced operating costs. All maintenance-relevant components are easily accessible. Service intervals for changing engine oil and filters are designed to be extra long. The plants can be conveniently refuelled from both sides, should one side be inaccessible due to a stockpile. The machines are also relatively quiet which benefits both the operator and the environment.



The temperature-controlled fan ensures a significant reduction of noise emissions, saves diesel and reduces the amount of dust entering the engine compartment.

Electric operation via an external power supply is possible with the optional electric-hydraulic Dual Power drive. This means that environmentally friendly work with zero emissions can be performed with even lower operating costs.



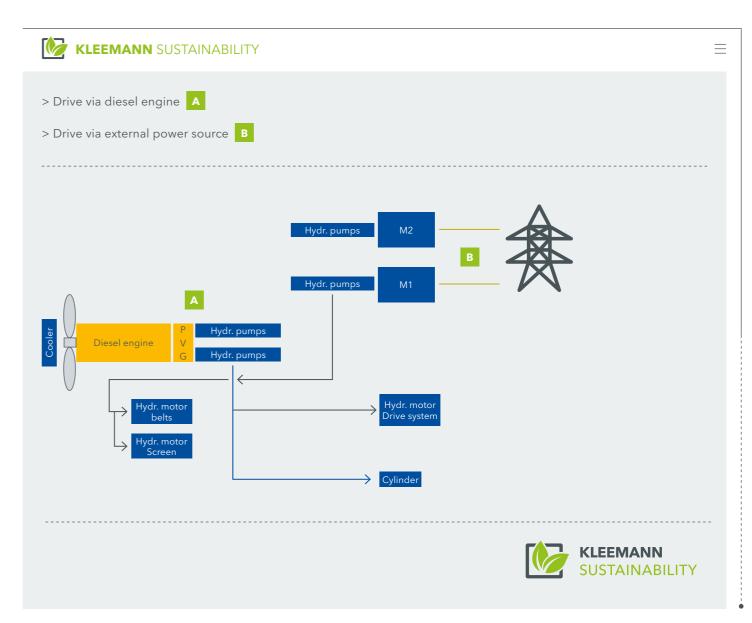
MSS 502(i) EVO

Diesel-hydraulic

73 - 77 / 94 - 98 kWDrive output MSS 502(i) / MSS 802(i) EVO







14 | 15 MOBISCREEN MSS 502(i) / MSS 802(i) EVO | SCREENING

EFFECTIVE SCREENING

For best results.

The screen casing of the MOBISCREEN MSS EVO is designed for high outputs with a generously dimensioned screening surface.

The large selection of screen media such as punched plates, slotted grates, finger screens and wire cloth enable a high degree of flexibility in the application. Above all, the configurability of each individual screen segment means that

the equipment can be ideally adapted to the application.

Thanks to good accessibility from all sides and the quickclamping wedge system, simple screen media changes are possible.

5.4 m² Screening surface MSS 502(i) EVO

7.5 m² Screening surface MSS 802(i) EVO

15.4 - 20° Setting range of screen angle









MSS 802(i) EVO

Screening efficiency with very coarse material

If you are confronted with material that is difficult to screen in an application, the optional material brakes and/or the chain curtain can be installed at two positions of the screen casing. This offers maximum flexibility for the operator for adapting the upper deck.

The material brake in the top position extends the material holding time, which leads to improved screening capacity. The lower position ensures that coarser material is slowed

KLEEMANN > PROCESS KNOWLEDGE

down before it is transferred to the main discharge conveyor. This avoids damage.

Adapting the screen angle, increasing the screening

The screen casing angle's wide setting range of 15.4 - 20° is a further advantage: This allows the plant to be perfectly adapted to the feed material. This optimises the screening capacity in combination with high product quality.

Screening efficiency in the lower deck The shape of the lower deck of both plants is a so-called banana profile. This means more screening efficiency in the lower deck with decreasing screen angle of the segments in flow direction. With the steep screen angle of the feeding side, a high flow rate and quick distribution of the material on the screen deck are achieved. On the discharge side the, screen angle is flatter, which extends the holding time and therefore increases the quality of the final product. Straight screen profile Banana profile

MOBISCREEN MSS 502(i) / MSS 802(i) EVO | MATERIAL FLOW

OPTIMISED MATERIAL FLOW

For high throughput.

The material flow of the MSS EVO plants is optimally designed - for higher total throughput and longer life thanks to reduced wear.

From the large feed hopper, via the spacious material transfer onto the screen deck, through to the discharge conveyors:

The entire process of the material flow is perfectly planned - without any bottlenecks.

The discharge heights of the discharge conveyors on the MSS 802(i) EVO can be optionally increased with the long version of the 1,400 mm wide crusher discharge conveyor and/or telescopic side discharge conveyors, which increases the stockpile volume and therefore the intervals for clearing the stockpiles. In addition, the use of the wheel loader and the associated costs are reduced.

The discharge heights of all discharge conveyors can be adjusted flexibly so that the transfer of the screened product to a downstream crusher can be adapted perfectly.

The speed of all conveyor belts is infinitely adjustable and can be easily fine-tuned. A magnetic separator (MSS 802(i) EVO only) and magnetic drum protect downstream crushers and increase material quality.

Line coupling - linking process and safety

For smooth material flow across several crushing and screening stages, the machine can be equipped with the line linking option. A process and safety linkage with all KLEEMANN plants from the EVO and PRO series is possible. For even greater flexibility in the application, the stockpile probe required for the process coupling can be placed on any of the plant's discharge conveyors.

KLEEMANN > PROCESS KNOWLEDGE

Conversion from 3 to 2 final grain sizes

The MSS 502(i) EVO as well as the MSS 802(i) EVO can be converted from 3 to 2 final grain sizes, which increases application flexibility. This conversion is generally required when

- > more material is fed than a screen deck can actually
- > a fine fraction is screened from relatively large feed material and, for instance, the fine harp screen needs to be protected against falling coarse material.





MOBISCREEN MSS 502(i)/MSS 802(i) EVO | SAFETY + ERGONOMICS

SAFETY & ERGONOMICS

For high operating comfort.

A machine has to be easy to operate and safe, but convenient maintenance is also very important to the operator.

All machine components of the screen for coarse elements are especially easy to access to guarantee trouble-free production, simple operation and fast service.

For instance, the machine is equipped with long and wide platforms for safe screen media changes and other maintenance work.

For ergonomic changing of the screen media in the lower deck, the screen casing of the MSS EVO plants can be moved into a horizontal position.

Cleaning the hopper discharge conveyor undersize is quick and simple thanks to a removable chute.

Additional options increase operating comfort

Standard LED lighting is already included in the basic plant, the optional premium lighting enables even better illumination of the material flow and transfer areas. Easy refuelling of the machine is possible from both sides. The refuelling can also be performed using a pump incl. hose system.

Safety first

The MSS EVO plants are also ideally equipped when it comes to safety. All functional and safety-relevant cylinders are fitted with lowering brake valves. Even if a hydraulic line is damaged, the affected cylinder remains in its current position - to protect both the operator and the machine. Operating the plants via the mobile control unit and therefore from a safe distance and with the best possible overview also boosts safety on site.









The standard lighting includes the illumination of the travel path, inclines and the work platforms.



Premium lighting

The premium lighting includes headlights for extended illumination of the material flow and the transfer areas, as well as a mobile work lamp.

MOBISCREEN MSS 502(i)/MSS 802(i) EVO | **TRANSPORT + ENVIRONMENT**

EASY TRANSPORT

Quickly on site.

The MSS EVO plants are extremely versatile and very easy to transport thanks to their compact dimensions.

The side discharge conveyors are hydraulically folded and remain on the machine for transport. Thanks to the mobile operating unit, set-up is simple and safe, thanks to a sufficient distance from the subsection, and can be viewed easily.

The crawler track unit's infinitely variable speed control enables precise and safe loading on the low-loader, as well as accurate positioning on site.





ENVIRONMENTALLY FRIENDLY SOLUTIONS

For a green future.



The plant for coarse elements is equipped with environmentally compatible innovations.

The MSS EVO plants have a temperature-controlled fan. As a result, noise and diesel consumption are reduced. With the average lower fan speed, the amount of dust getting into the power pack is also reduced. The option of electric operation via the optional external power supply also allows work with zero emissions and even lower operating costs.

An additional electric water pump is also available as optional equipment for self-sufficient supply of the spray system.

Thanks to the temperature-controlled fan, the coarse screening units are very quiet. This makes working close to the machine much more pleasant and easier on the operator.





MOBISCREEN MSS 502(i) / MSS 802(i) EVO | **SPARE PARTS**

SCREENING TECHNOLOGY

The matching screen surfaces for optimum results.

During day to day operation, screen media are really put to the test. Original KLEEMANN GRADE screening media are subject to exceptionally high quality standards to ensure that the desired material is screened consistently and reliably over time.

The screening result itself is determined by a variety of factors. The main influencing factors are the grain shape, moisture content and feed quantity. For KLEEMANN coarse screening plants, GRADE offers a large selection of screening media for

the upper and lower decks, which can be equipped to suit the application and the desired end result. The individual screen segments can be freely configured. Application flexibility at its best!

O1 FS-GRADE finger screens

- > Can be used for materials that are difficult to separate such as damp and sticky loamy soil
- > Separation of flaky and bulky screen material

OZ SG-GRADE slotted grates

- > Preferred application in natural rock processing for loamy, cohesive and wet feed material
- > Separation of flaky and bulky screen material

03 PP-GRADE punched plates

> Frequent use in gravel processing, recycling and natural rock processing mainly in coarse and/or abrasive material for precise separation

OM-GRADE wire cloth - square mesh/rectangular mesh

- > For screening fine and medium coarse material
- > Different wire qualities and thicknesses available (thicker = longer life, thinner = higher production)

05 Harp screens

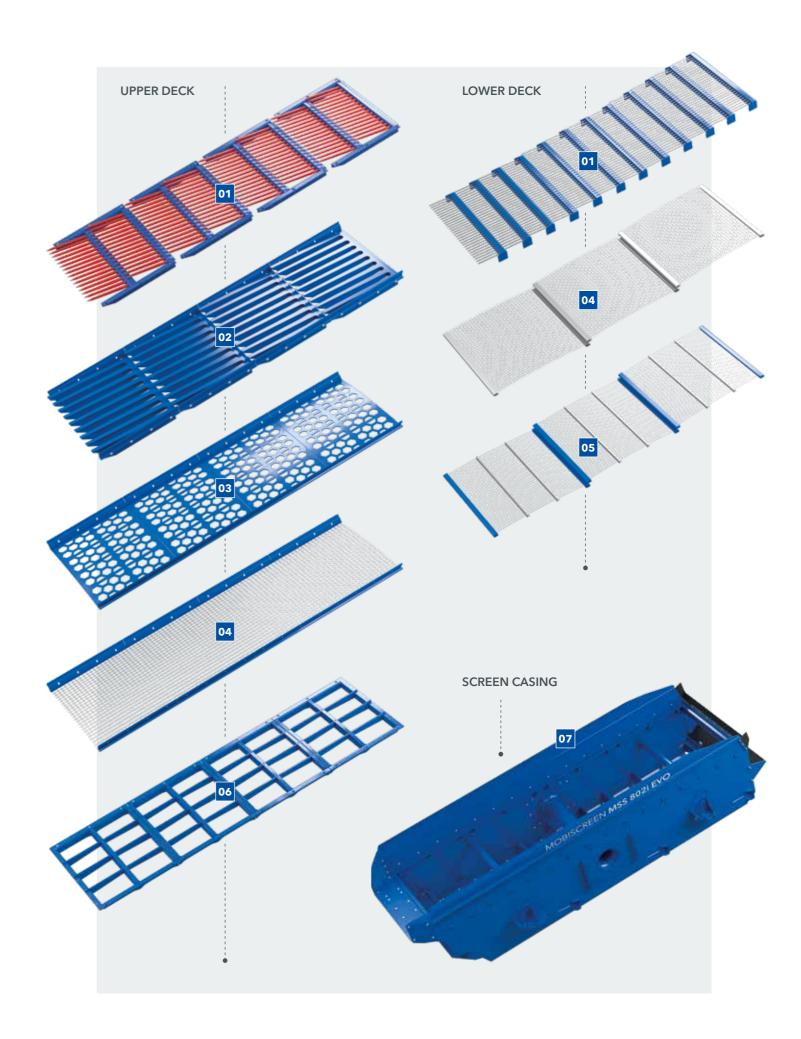
- > Available in different versions: PM-GRADE G-Harp/Piano Wire, DM-GRADE S-Harp, RM-GRADE W-Harp/Long Slot
- > Recommended for particularly damp and sticky material that is difficult to screen
- > DM-GRADE: With self-cleaning effect through the natural vibration of the longitudinal wires

06 Intermediary frame

> Used for supporting the screen media with punched plate and wire cloth

O7 Screen casing

> Double-deck screen casing



MOBISCREEN MSS 502(i)/MSS 802(i) EVO | **TECHNICAL DATA**







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